

Fig. 1A

SUS1	SEQ ID NO: 1	ENGIL RKWI SRFDVWPYL	native
SUS2	SEQ ID NO: 3	ENGIV RKWI SRFEVWPYL	native
SS2	SEQ ID NO: 10	GIV RKWI SRFEVWPYL KK	active
SS11	SEQ ID NO: 11	ILRVPFRTENGIV RKWI _(NH2)	inactive
SS12	SEQ ID NO: 12	GIV RKWI SRFEVWPYL _(NH2)	active
SS15	SEQ ID NO: 13	GIV RKAI SRFEVAPYL _(NH2)	less active
SS16	SEQ ID NO: 14	SRFEVWPYL _(NH2)	less active
SP3	SEQ ID NO: 18	^N RRISSVE ^N ^N DKK _(NH2)	inactive
NR11	SEQ ID NO: 15	GPTL KRTASTAFMNTTSKK	inactive
SP26	SEQ ID NO: 16	GRMR RRIATVEMMKK	inactive
SS1	SEQ ID NO: 9	GDRVLSRLHSVVRERIGK	inactive
ACTIN	SEQ ID NO: 19	EHGIVTNWDDMEKIWHHTFY	consensus

Double basic cluster: black box; e.g. **KK**

Possible region of specificity: underlined or boxed

Substitutions: bold

Fig. 1B

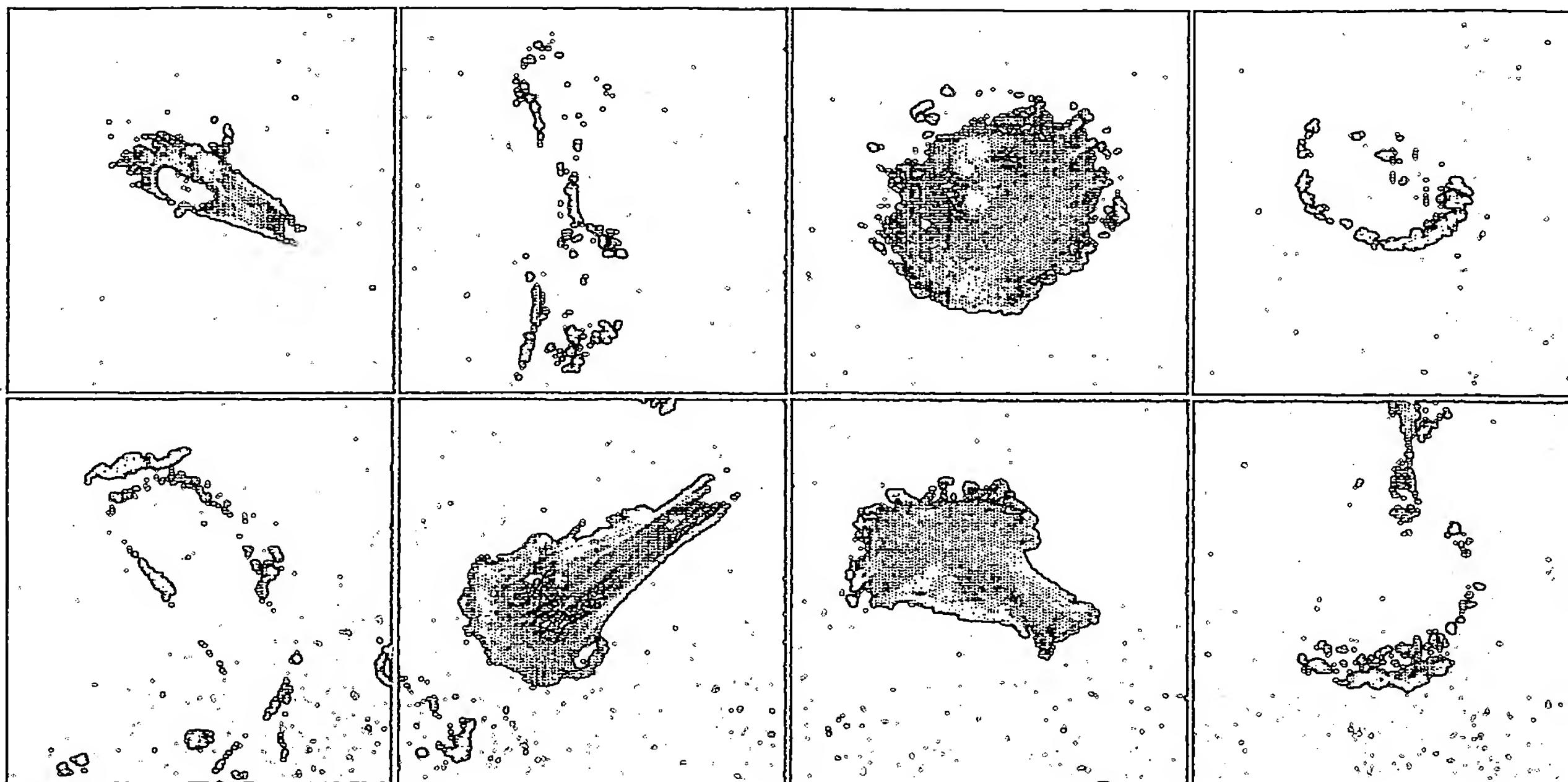
EN	GIVRK	WI	SRFEVW	PYL	KK
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X_4 X_3 X_2 X_1 X_5 X_6

SEQ ID NO.		SEQUENCE
SEQ ID NO:22	X_1	SRFEVW
SEQ ID NO:17	$X_2 - X_1$	WI SRFEVW
SEQ ID NO:14	$X_1 - X_5$	SRFEVW PYL
SEQ ID NO:23	$X_2 - X_1 - X_5$	WI SRFEVW PYL
SEQ ID NO:12	$X_2 - X_1 - X_5$	GIVRK WI SRFEVW PYL
SEQ ID NO:10	$X_3 - X_2 - X_1 - X_5$	GIVRK WI SRFEVW PYL KK
SEQ ID NO:24	$X_4 - X_3 - X_2 - X_1 - X_5 - X_6$	EN GIVRK WI SRFEVW PYL KK

Fig. 2

A



B

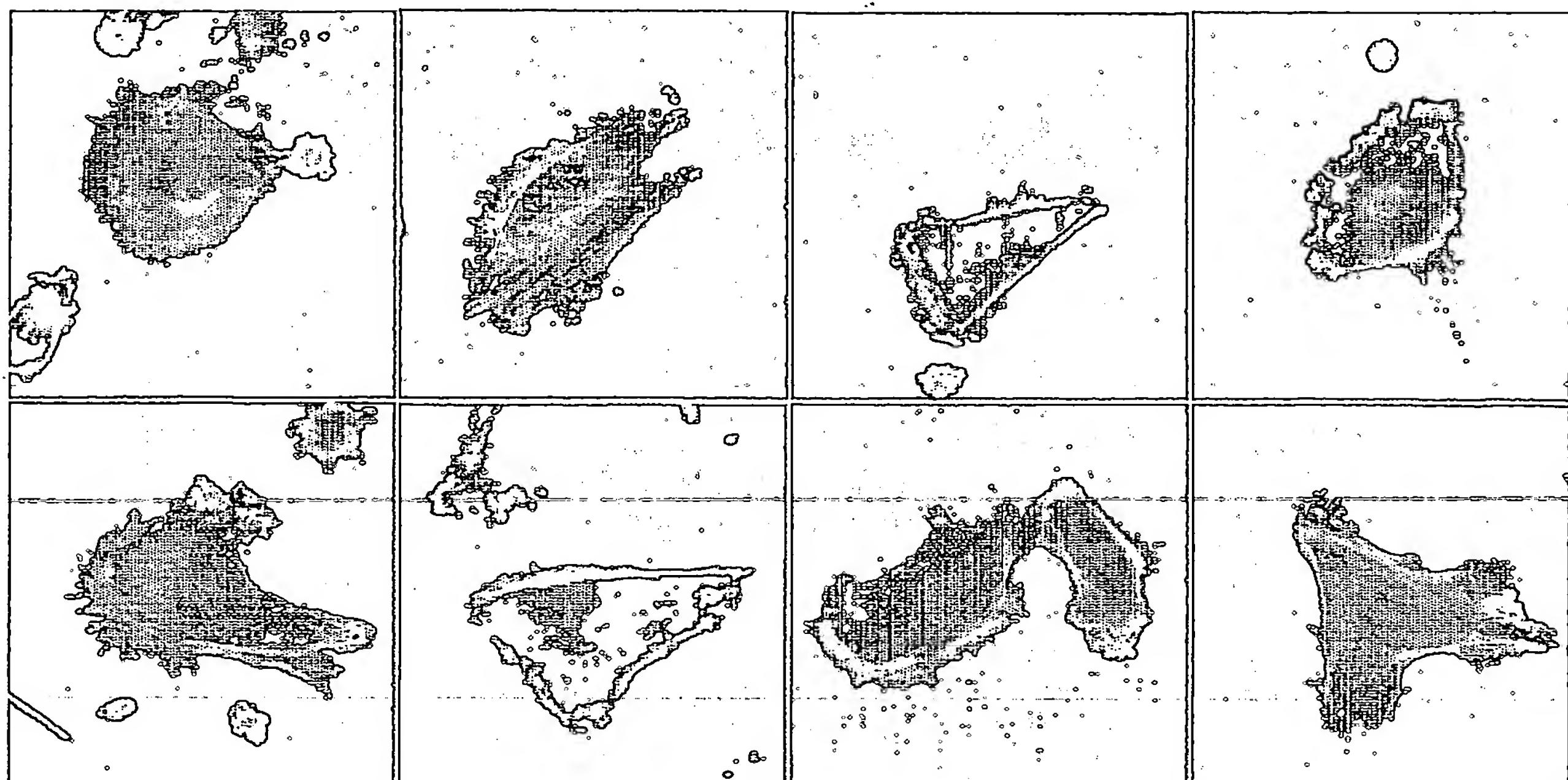


Fig. 3

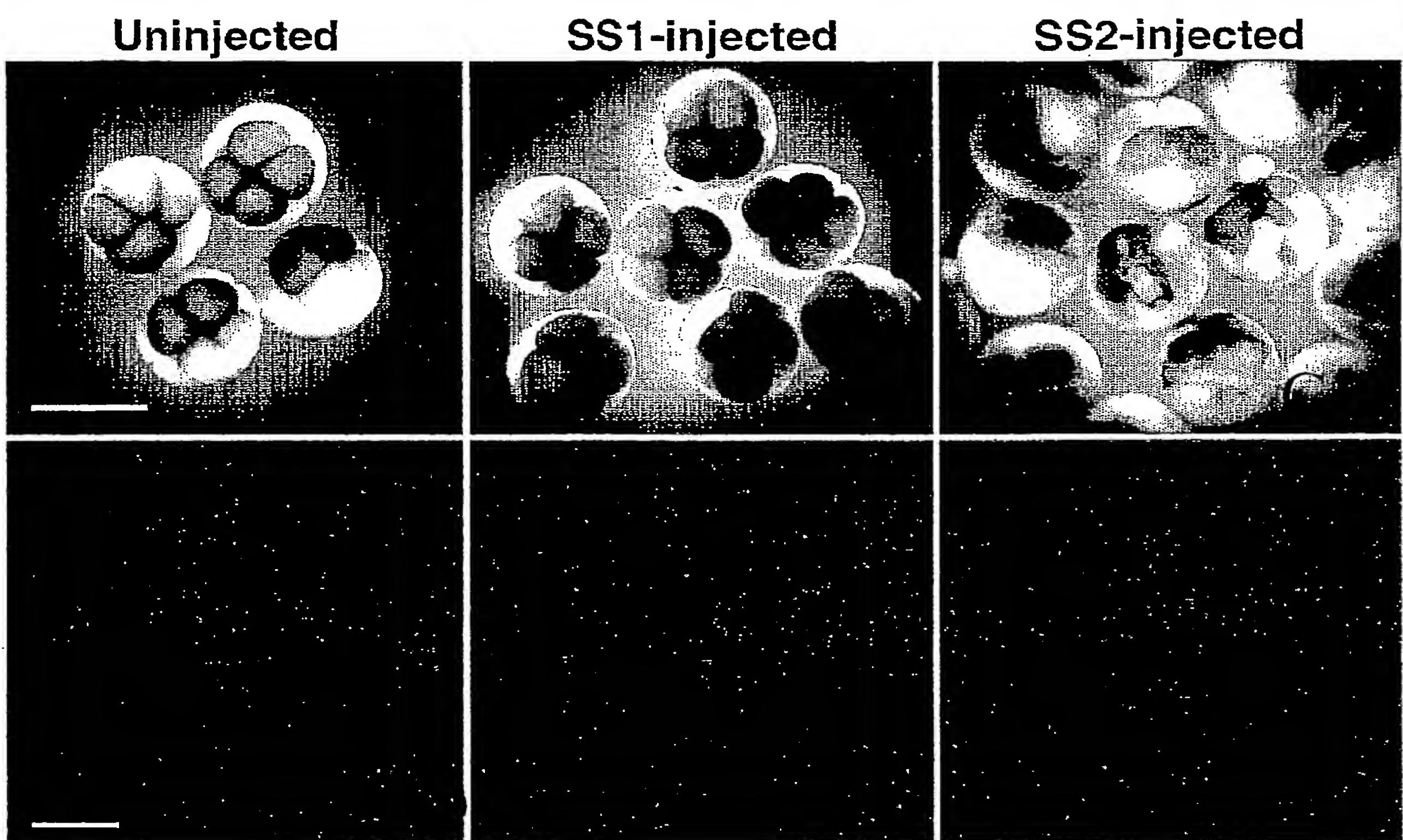
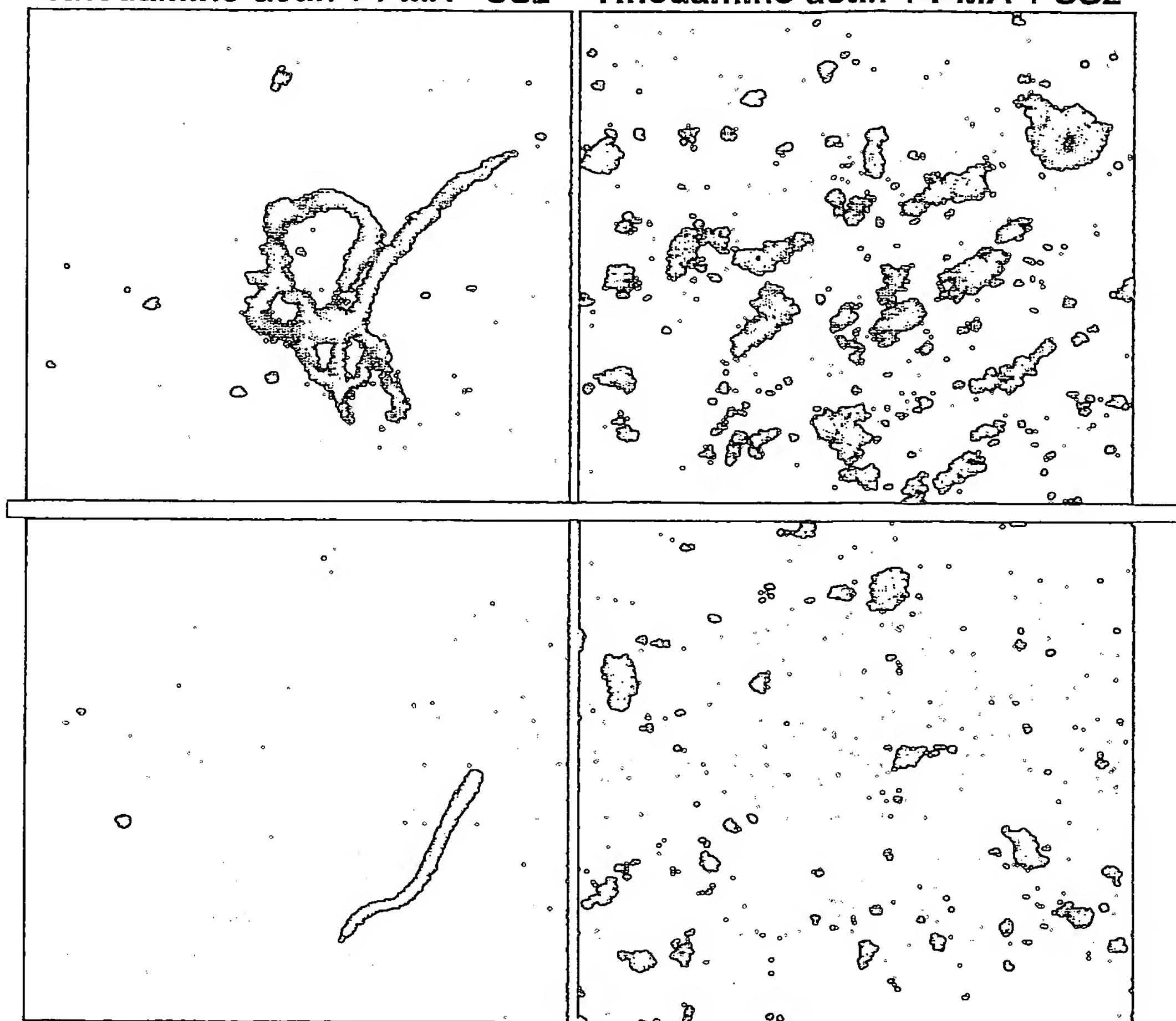


Fig. 4

Xenopus cytoplasmic extracts

Rhodamine-actin + PMA - SS2 Rhodamine-actin + PMA + SS2



Rhodamine-actin + PMA - SS12

Rhodamine-actin + PMA + SS12

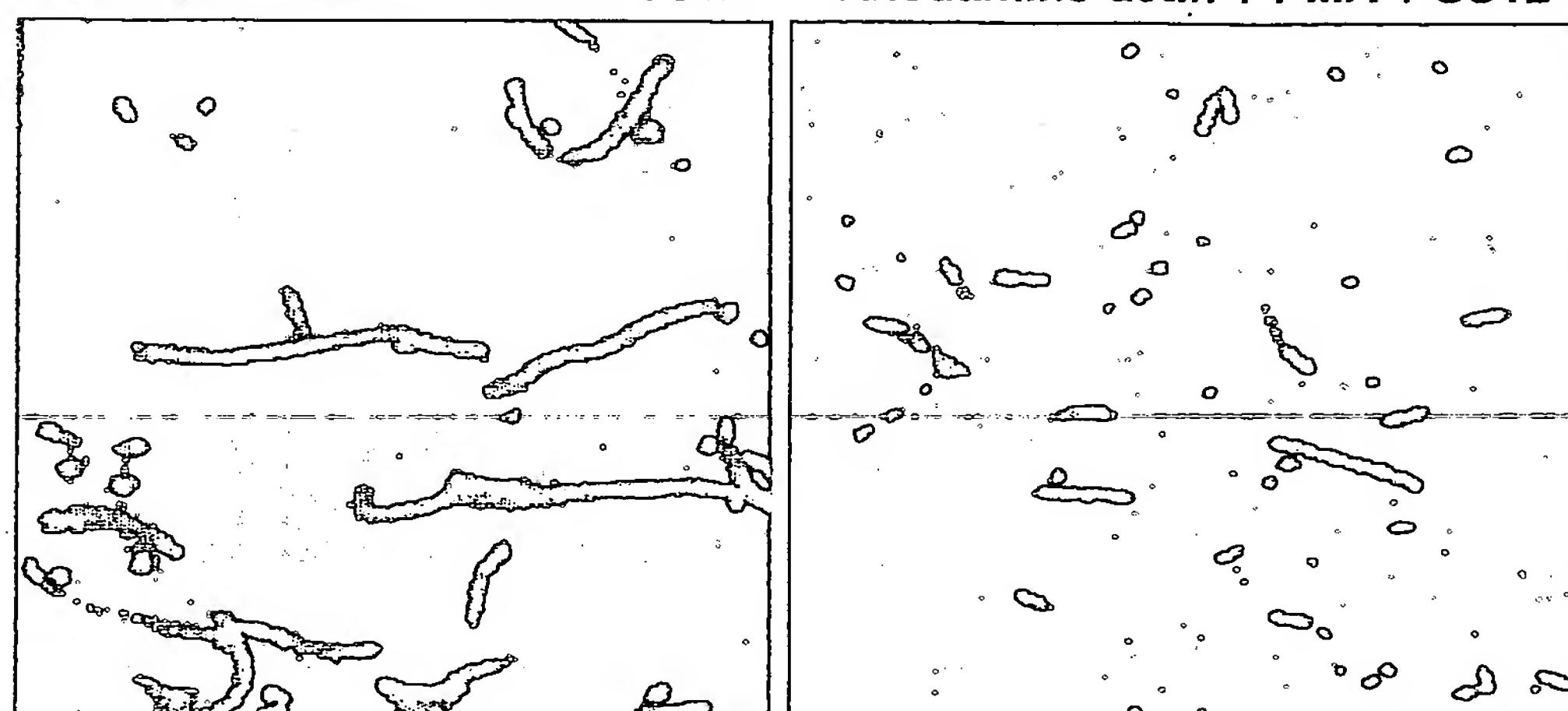
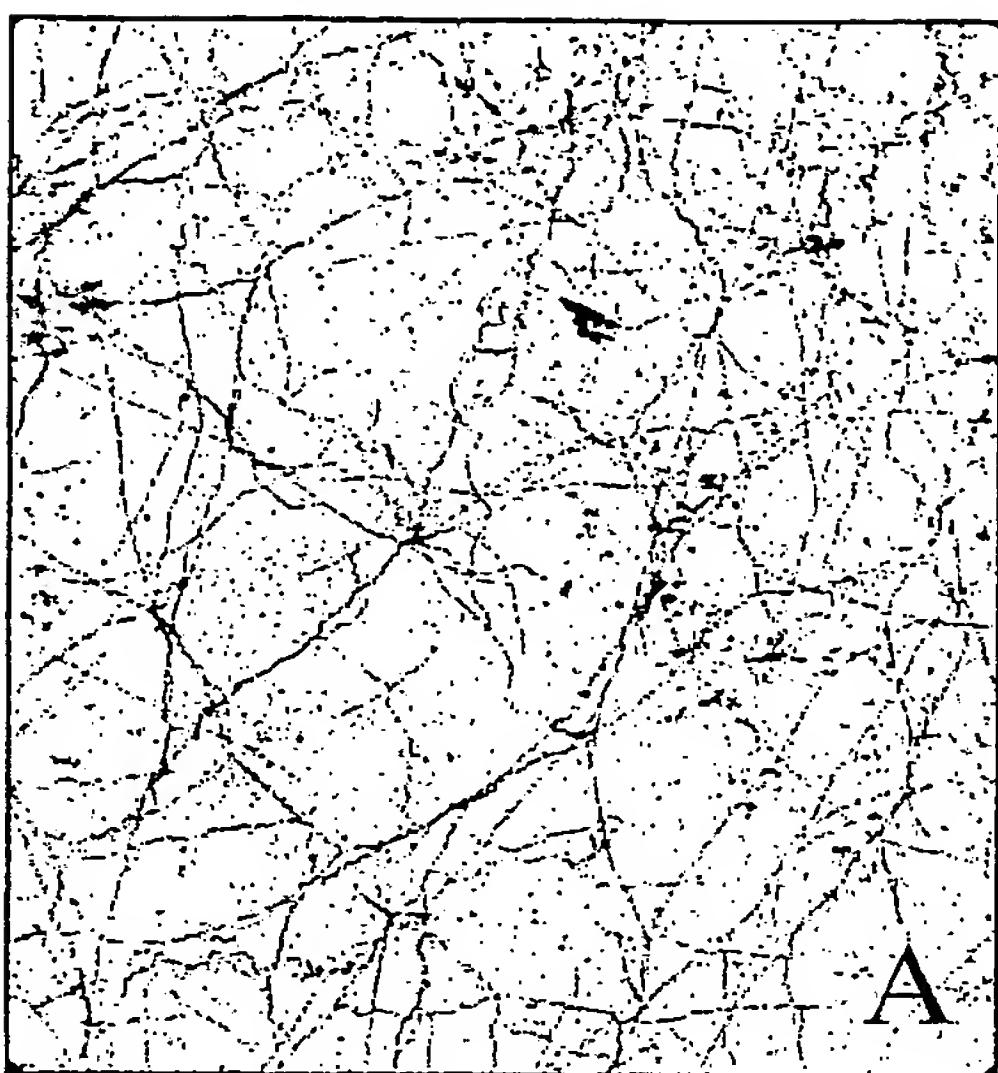
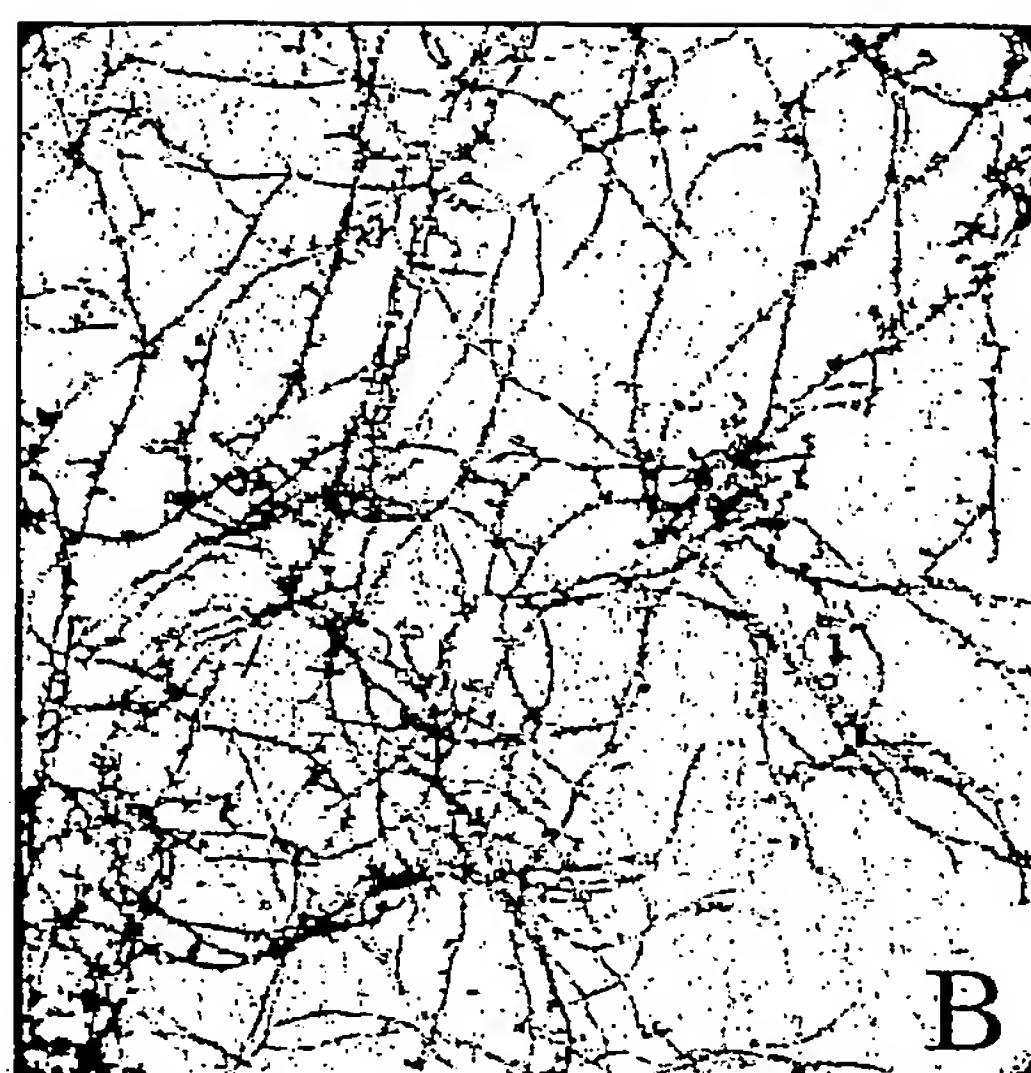


Fig. 5

control

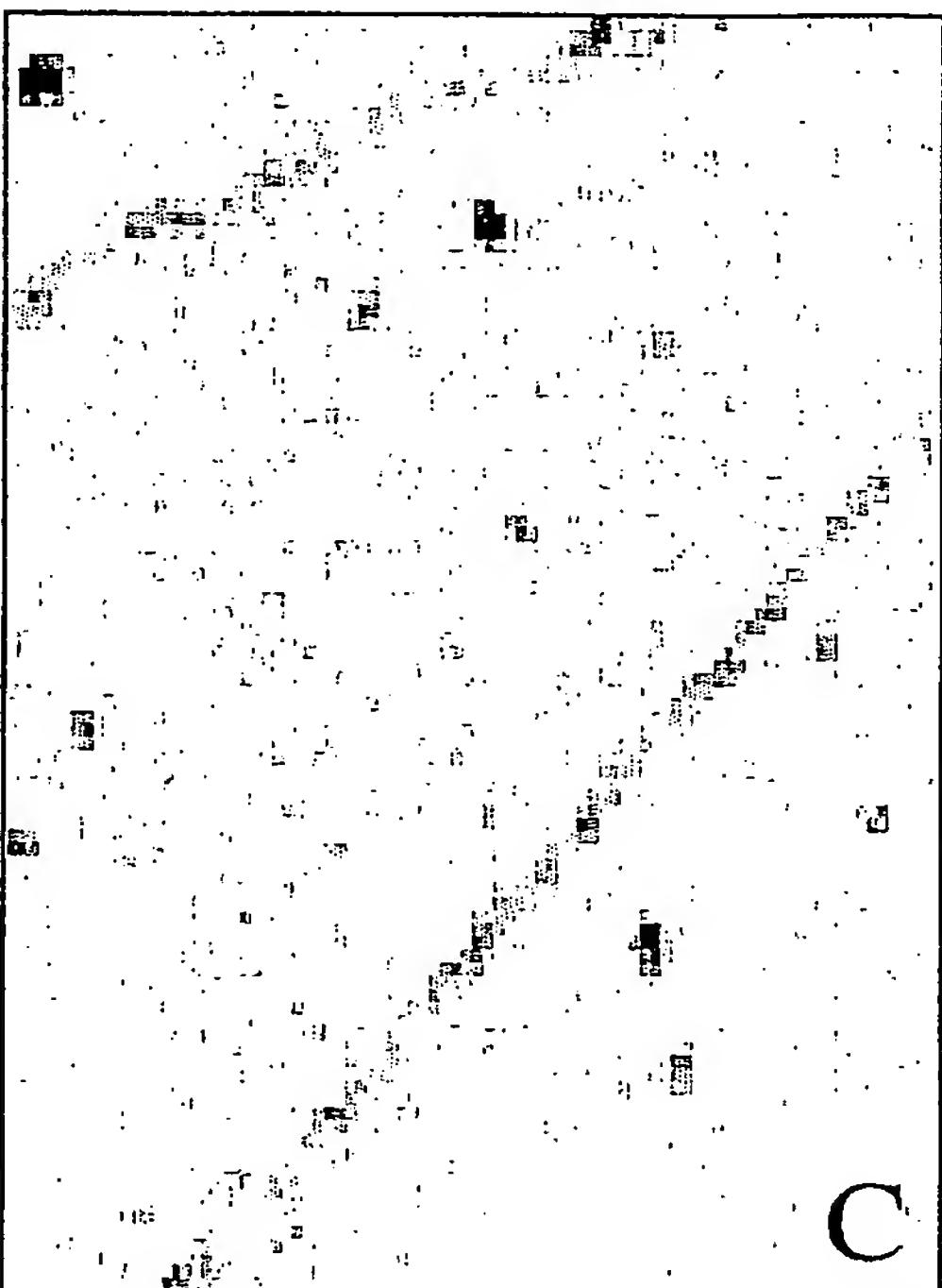


SS12



A

B



C



D

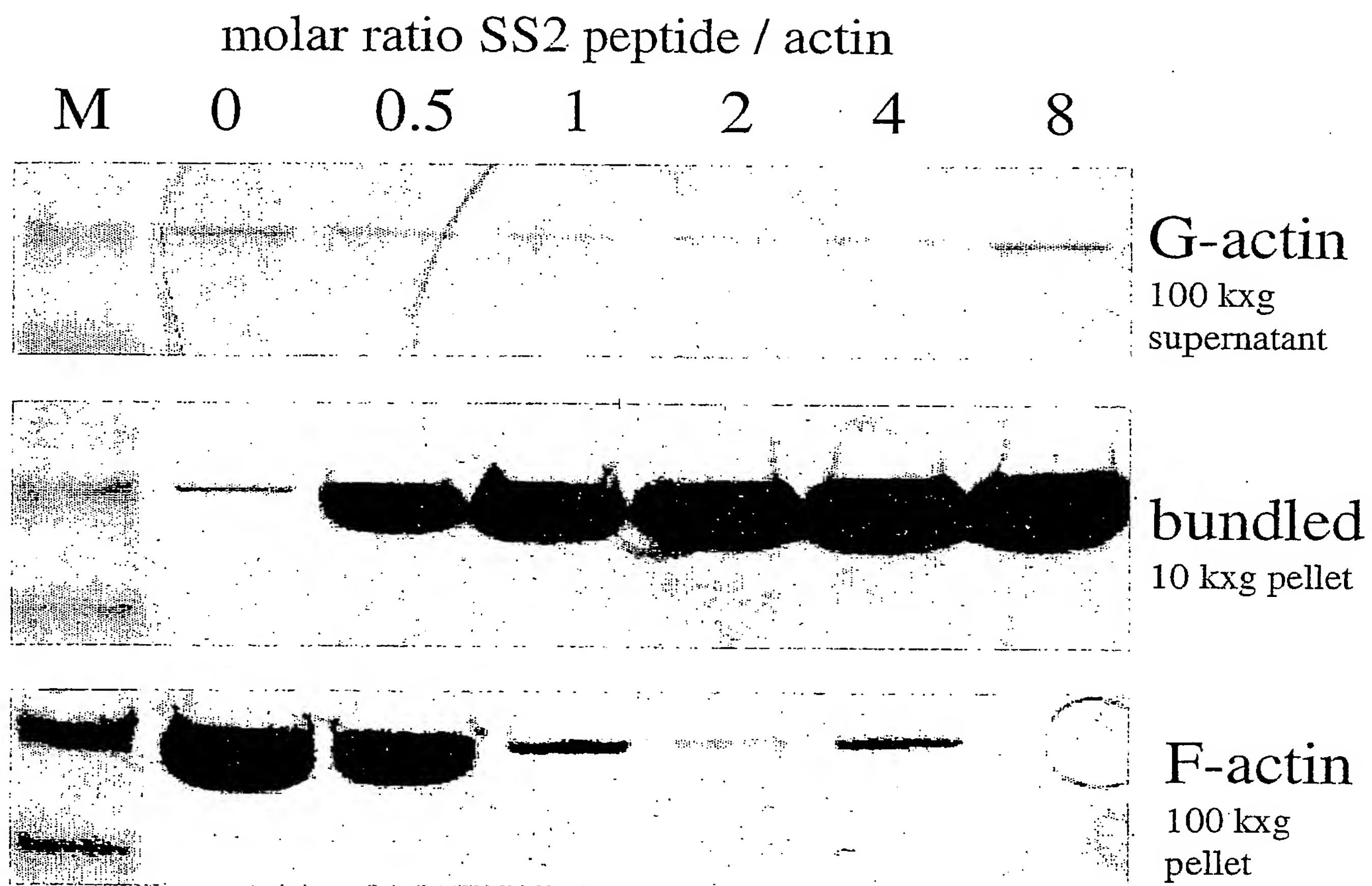
Fig. 6A

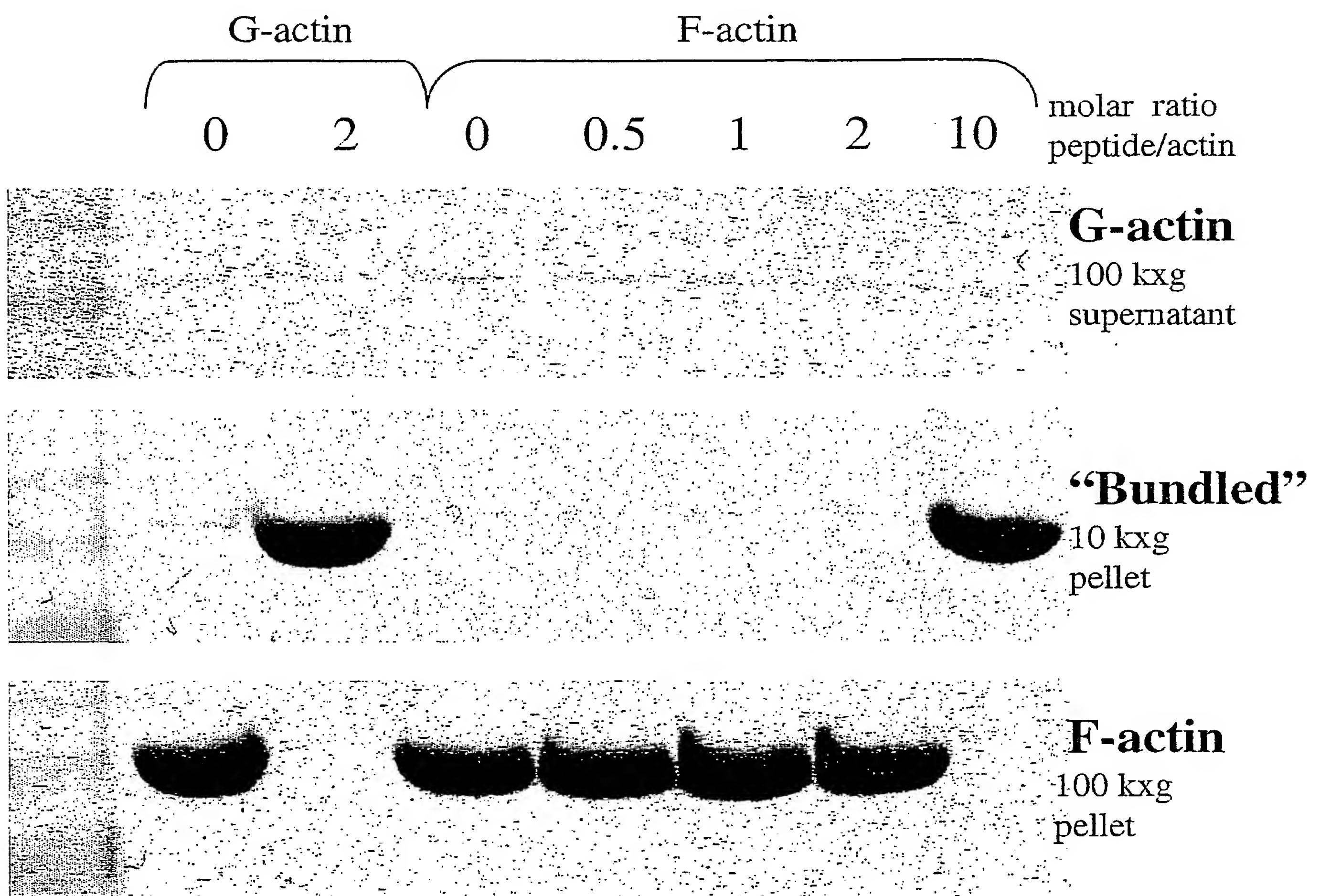
Fig. 6B**Effect of SS2 on polymerized
F-actin in vitro**

Fig. 6C

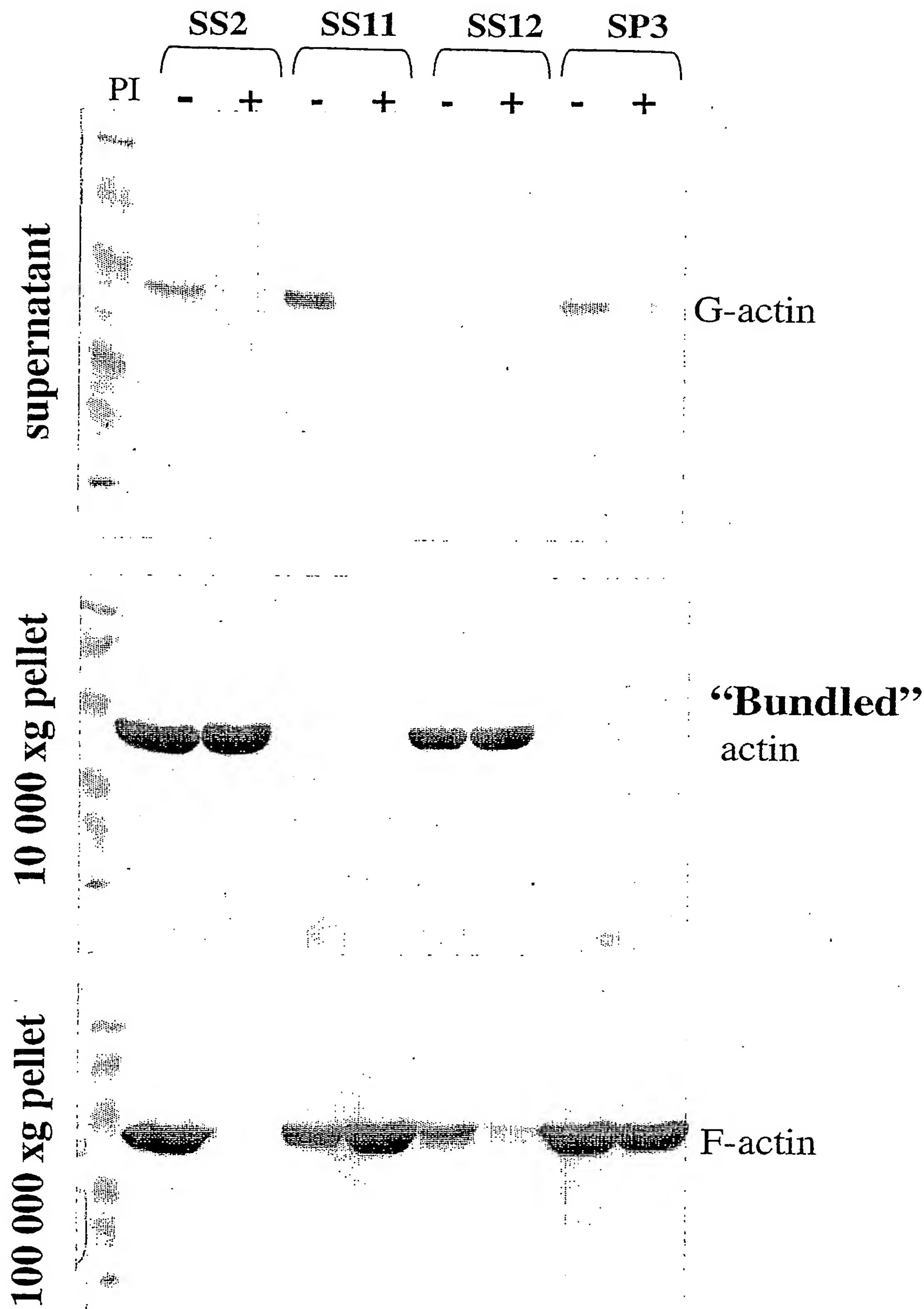


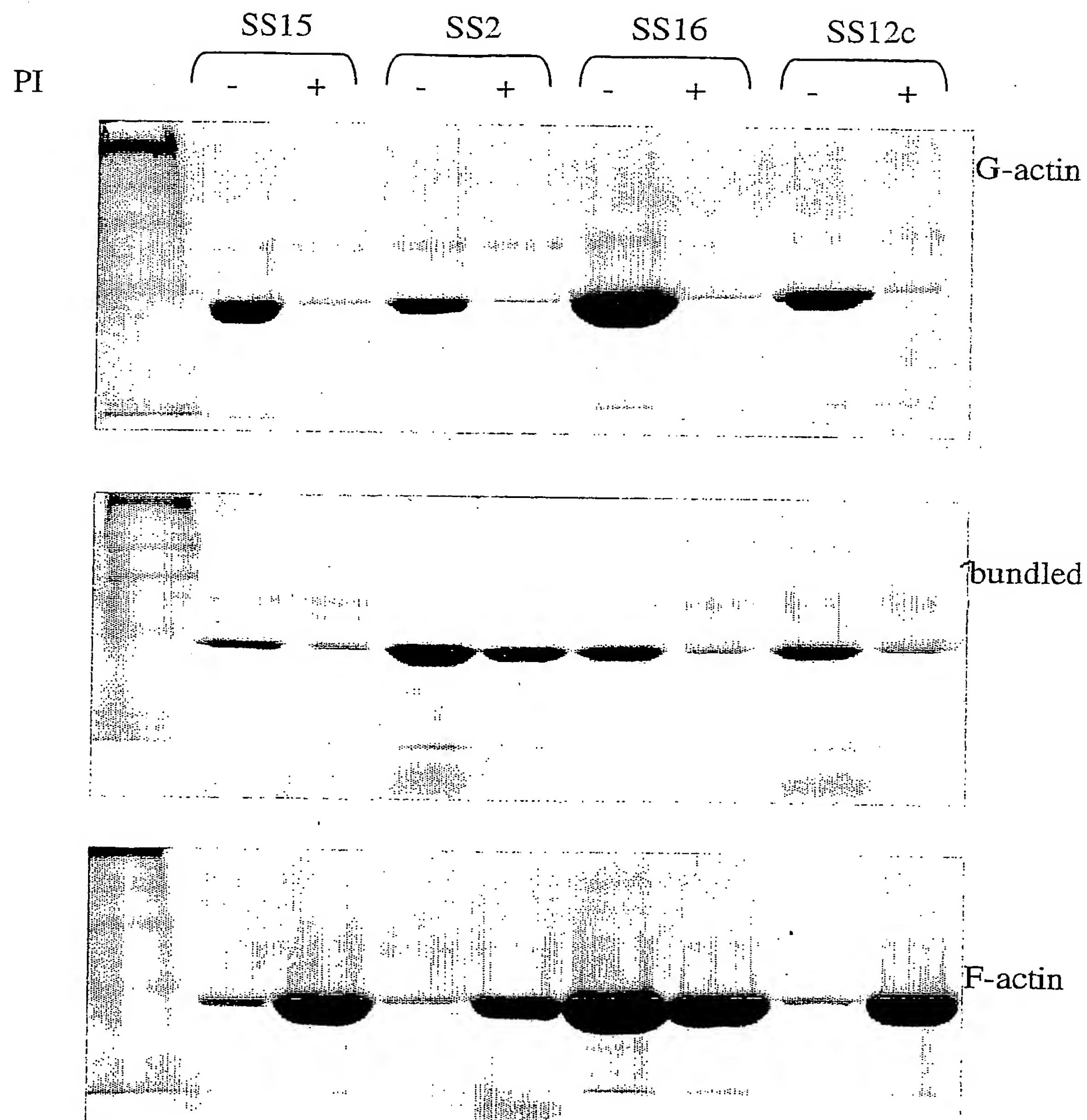
Fig. 6D

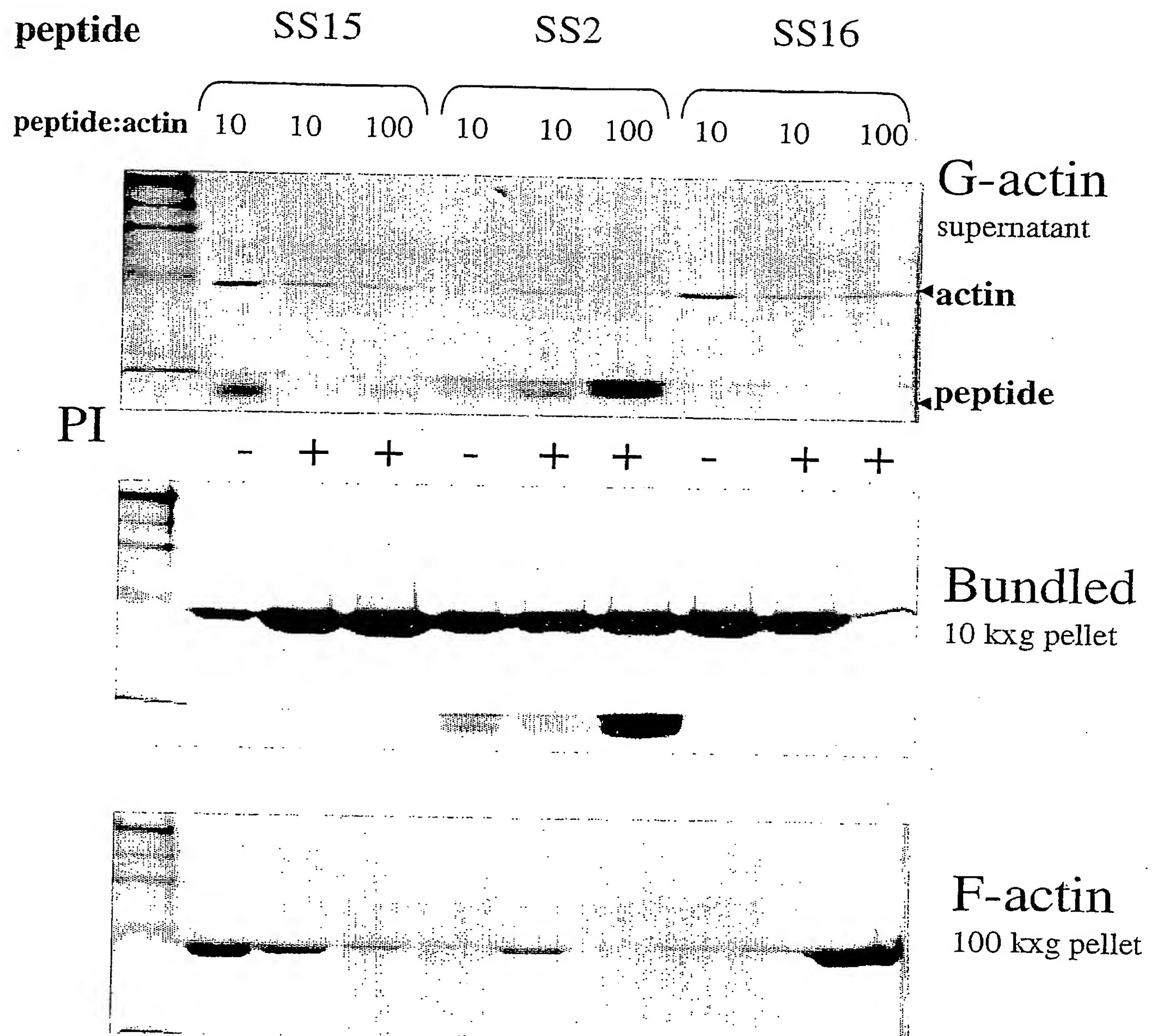
Fig. 6E

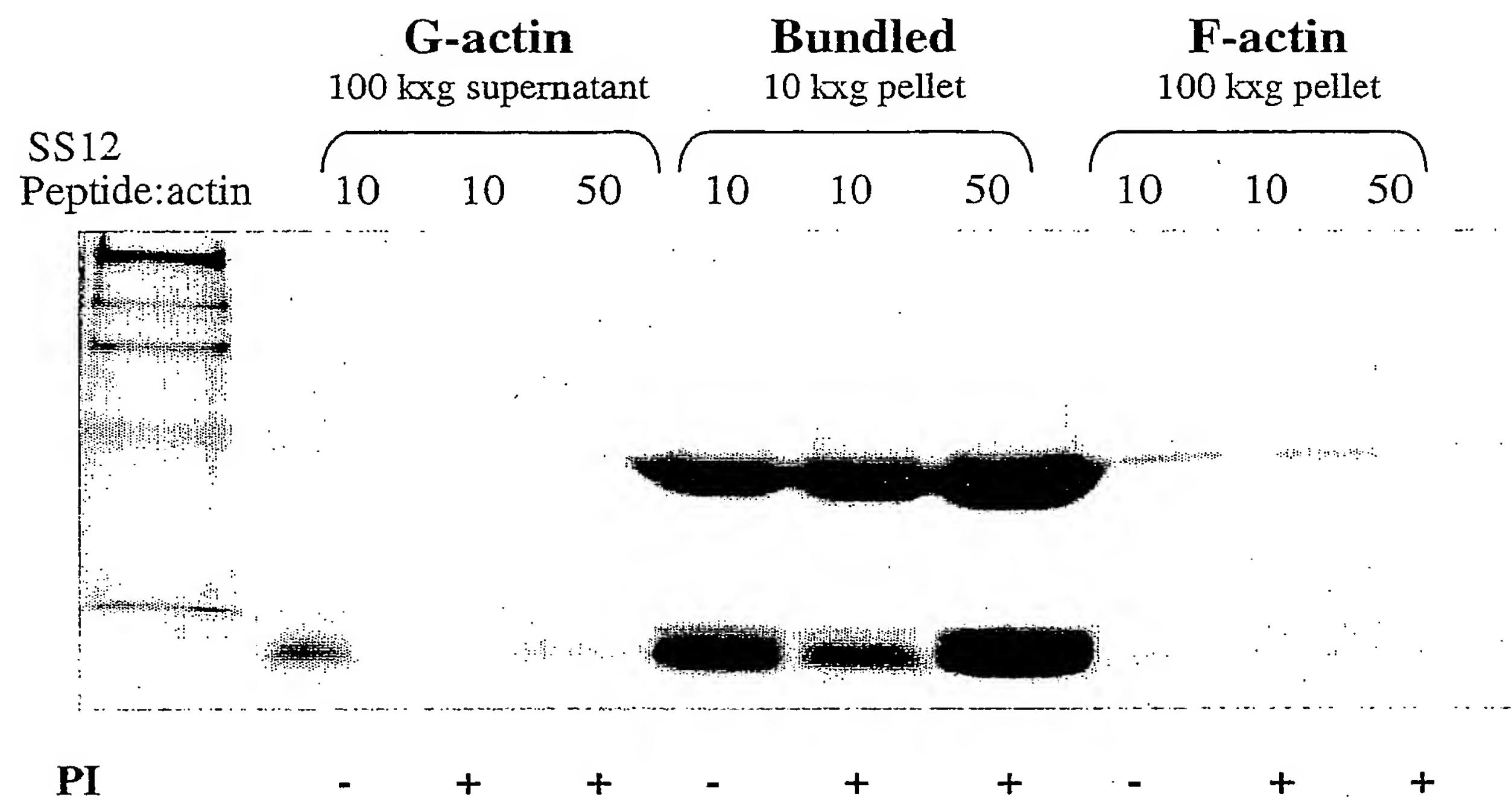
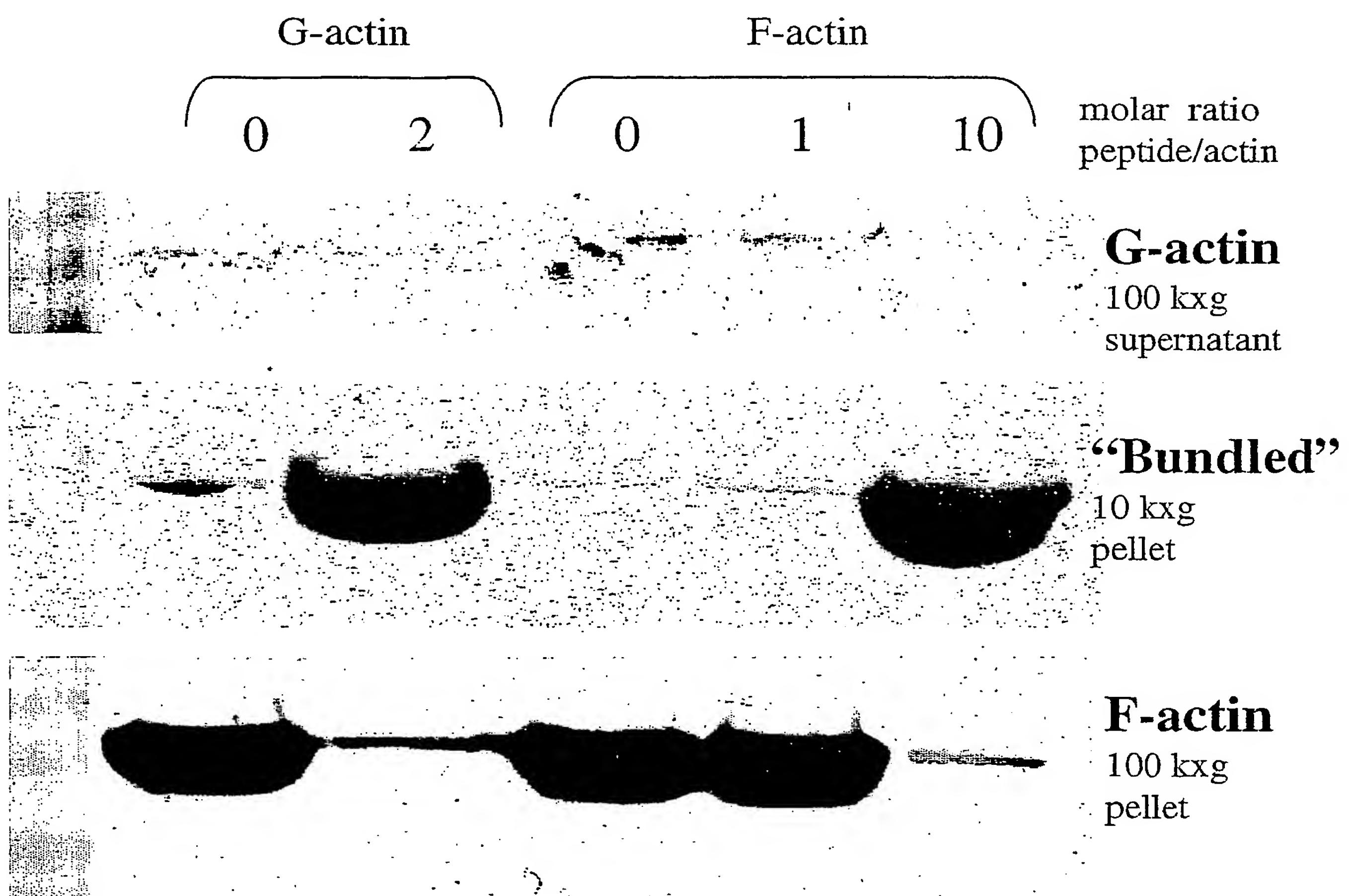
Fig. 6F

Fig. 7

SS2 bundling activity is not affected
by phalloidin



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